Technical Data Sheet

LOCTITE ABLESTIK ICP 4015

November 2014

PRODUCT DESCRIPTION

LOCTITE ABLESTIK ICP 4015 provides the following product characteristics:

Technology	Silicone
Appearance	Silver
Cure	Heat cure
Product Benefits	• One component • High flexibility • Low temperature cure
Operating Temperature Range	-40 to 200ºC
Application	Assembly
Filler Type	Silver

LOCTITE ABLESTIK ICP 4015 is a silicone based, electrically conductive adhesive. It is specially designed for applications where both high flexibility and excellent conductivity are required.

LOCTITE ABLESTIK ICP 4015 is engineered to maintain its flexibility and conductivity at elevated temperatures, up to 200ºC. This adhesive is also formulated to cure at temperatures as low as 80ºC.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Viscosity @ 25ºC:	
Plate 2 cm @ Shear rate 15 s^{-1}, mPa·s (cP)	22,000
Increase after 16 hours @ RT, %	<10
Increase after 48 hours @ RT	<50
Thixotropic Index	2.5
Density , g/cm³	4.1
Solids Content, %	85
Shelf Life @ -40 °C, days	121

TYPICAL CURING PERFORMANCE

Cure Schedule

30 minutes @ 80°C

Weight Loss on Cure

Weight Loss on Cure, %	<1

The above cure profiles are guideline recommendations. Cure conditions (time and temperature) may vary based on customers' experience and their application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

TYPICAL PROPERTIES OF CURED MATERIAL

Sample cured 30 minutes @ 80°C.

Physical Properties

Elongation @ break, %		>100
Tensile Stress	N/mm²	>1.5
	(psi)	(>217)

Electrical Properties

Volume Resistivity, ohms-cm	1×10^{-4}

TYPICAL PERFORMANCE OF CURED MATERIAL

Sample cured 30 minutes @ 80°C .

Miscellaneous

Die Shear Strength :	
2 X 2 mm (80 x 80 mil) Si to Ag Plated Cu L/F, grams	300

GENERAL INFORMATION

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

THAWING:

1. After removing from the freezer, set the syringes to stand vertically while thawing.
2. DO NOT open the package before contents reach ambient temperature.
3. Any moisture that collects on the thawed package should be removed prior to opening the package.
4. Material is ready to use after 1 hour @ 25ºC.
5. DO NOT re-freeze. Once thawed, the adhesive should not be re-frozen.

DIRECTIONS FOR USE

1. Packages removed from storage should be allowed to return to ambient temperature before use.
2. This material can be applied by hand, automatic dispense equipment or by stencil printing.
3. Clean or degrease all application surfaces with a suitable solvent.

Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage: -40°C. Storage below -40°C or above -20°C can adversely affect product properties.

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Conversions
(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm² x 145 = psi
MPa = N/mm²
MPa x 145 = psi
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = cP

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